JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
11131061/00	P	C424	CD-289346	00 of 07	1

CONTRACTOR : ABB CONTRACTING CO. LTD.

CUSTOMER : NATIONAL GRID – SAUDI ARABIA / SEC–COA

PROJECT : REINFORCEMENT OF EXISTING 132/33kV SUBSTATION #8501
AL–MAJMAH SUBSTATION

CONTRACT NO. : –

PLANT NO. : C424

JOB ORDER NO. : 11131061/00

PANEL NAME : NEW 125V DC DISTRIBUTION BOARD
(TWO LINE DIAGRAM)

NOTES

REFERENCE DRAWINGS

DRAWING TITLE	DRAWING NO.
DRAWING CONTROL SHEET	CE-289148
ONE LINE DIAGRAM - DC AUXILIARY SYSTEM	CA-289211

AS-BUILT BY - DATE -

REV. NO.	DATE	BY	DESCRIPTION	CHKD.	CERT.	APPD.
1	29.04.13	EMM	REV. AS PER COMMENTS	CV	CV	DA
0	16.02.13	EMM	ISSUED FOR APPROVAL	CV	CV	DA

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TWO LINE DIAGRAM COVER PAGE

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXISTING 132/133KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

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JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
11131061/00	P	C424	CD-289346	01 of 07	1

SHEET	DESCRIPTION	REVISION						
		0	1	–	–	–	–	–
0	COVER SHEET	X	X					
1	INDEX	X	X					
2	TWO LINE DIAGRAM	X	X					
3	TWO LINE DIAGRAM	X	X					
4	TWO LINE DIAGRAM	X	X					
5	TWO LINE DIAGRAM	X	X					
6	TWO LINE DIAGRAM	X	X					
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NOTES

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INDEX

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXISTING 132/133KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
11131061/00	P	C424	CD-289346	01 of 07	1

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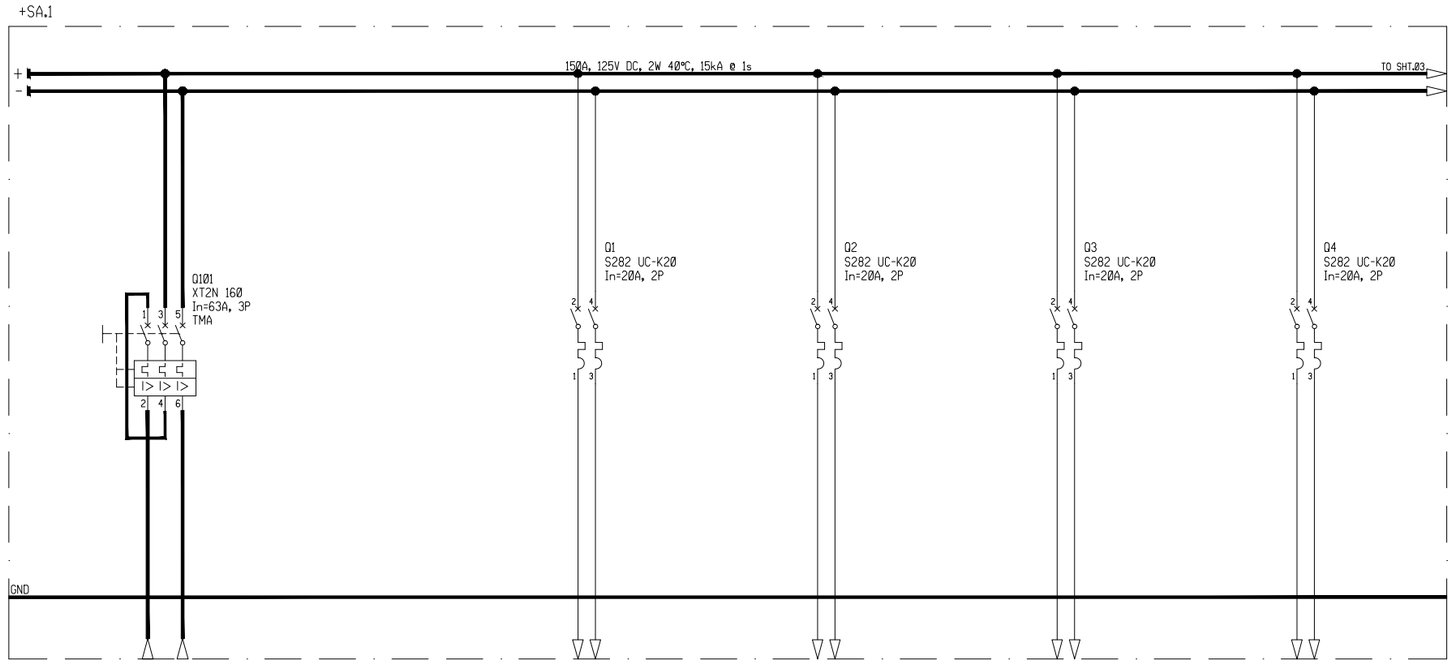
11131061/00	P	C424	CD-289346	02 of 07	1



EQUIPMENT LABEL	-	-	-	-	-
ITEM DESCRIPTION	FROM EXISTING DCDB - - -	132kV PROTN SET-1 (GT3) - - -	132kV PROTN SET-2 (GT3) - - -	AVC PANEL SUPPLY-1 - - -	AVC PANEL SUPPLY-2 - - -
RATING (A, kW, kVA)	63A	20A	20A	20A	20A
CUBICLE LOCATION	+SA.1	+SA.1	+SA.1	+SA.1	+SA.1
MODULE SIZE	-	-	-	-	-
MODULE LOC.	-	-	-	-	-
CABLE SIZE	2-1Cx70sq.mm	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm

NOTES

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TWO LINE DIAGRAM

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXISTING 132/133KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
11131061/00	P	C424	CD-289346	02 of 07	1

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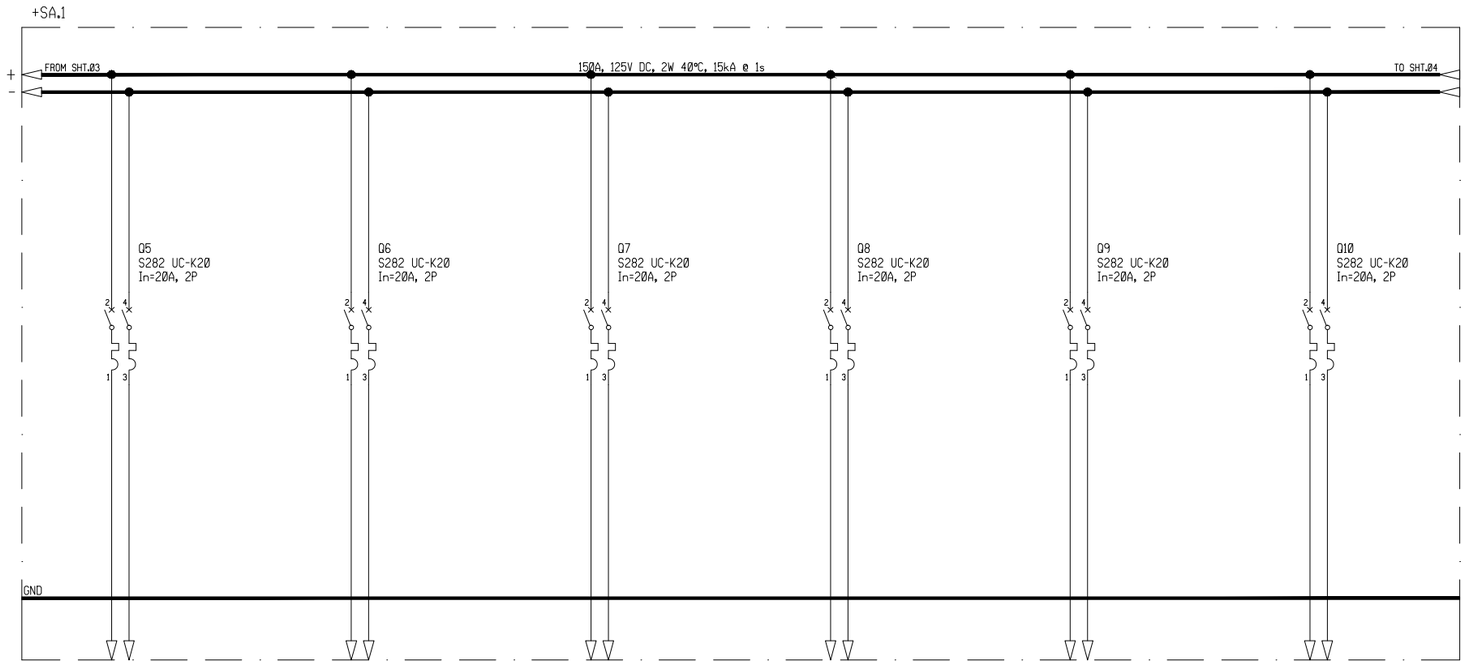
11131061/00	P	C424	CD-289346	03 of 07	1



EQUIPMENT LABEL	-	-	-	-	-	-
ITEM DESCRIPTION	REVENUE METERING PANEL - - -	NEW LIGHTING PANEL CONTROL SUPPLY - -	NEW POWER PANEL CONTROL SUPPLY - - -	EMERGENCY LIGHTING ILLUMINATION IN PANEL - -	EMERGENCY LIGHTING SUPPLY-1 - - -	EMERGENCY LIGHTING SUPPLY-2 - - -
RATING (A, kW, kVA)	20A	20A	20A	20A	20A	20A
CUBICLE LOCATION	+SA.1	+SA.1	+SA.1	+SA.1	+SA.1	+SA.1
MODULE SIZE	-	-	-	-	-	-
MODULE LOC.	-	-	-	-	-	-
CABLE SIZE	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm

NOTES

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ONE LINE DIAGRAM - DC AUXILIARY SYSTEM	CA-289211

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TWO LINE DIAGRAM

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXISTING 132/133KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
11131061/00	P	C424	CD-289346	03 of 07	1

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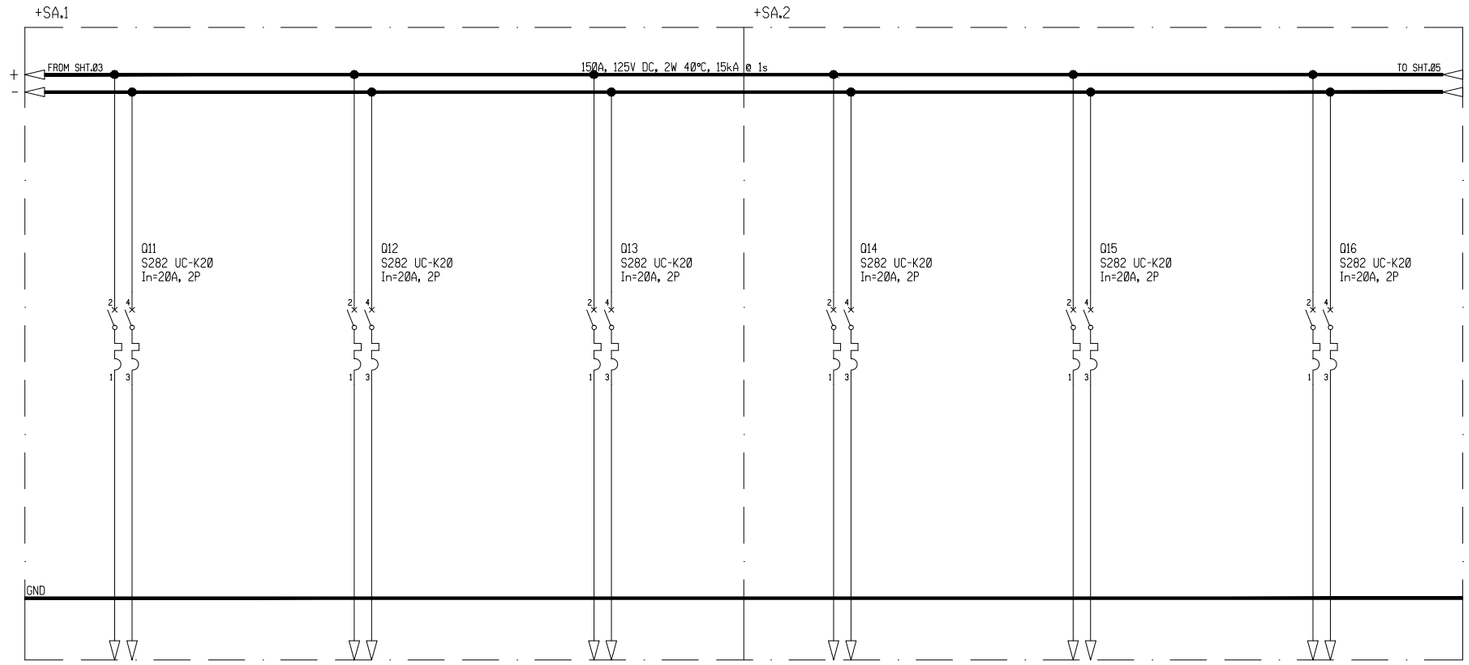
11131061/00	P	C424	CD-289346	04 of 07	1



EQUIPMENT LABEL	-	-	-	-	-	-
ITEM DESCRIPTION	LOCAL CONTROL CABINET (NEW GT3) - - -	AUTO CHANGE OVER SWITCHING PANEL - - -	33kV BUS SECTION-C CB ALARM SIGNALLING - -	33kV BUS SECTION-C I/C CB ALARM & SIGNALLING - -	33kV BUS SECTION-C O/G CB ALARM & SIGNALLING - -	33kV BUS SECTION-C OPERATING MECHANISM - -
RATING (A, kW, kVA)	20A	20A	20A	20A	20A	20A
CUBICLE LOCATION	+SA.1	+SA.1	+SA.1	+SA.2	+SA.2	+SA.2
MODULE SIZE	-	-	-	-	-	-
MODULE LOC.	-	-	-	-	-	-
CABLE SIZE	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm

NOTES

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DRAWING CONTROL SHEET	CE-289148
ONE LINE DIAGRAM - DC AUXILIARY SYSTEM	CA-289211

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TWO LINE DIAGRAM

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXISTING 132/133KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
11131061/00	P	C424	CD-289346	04 of 07	1

SEC-D (2004/10)

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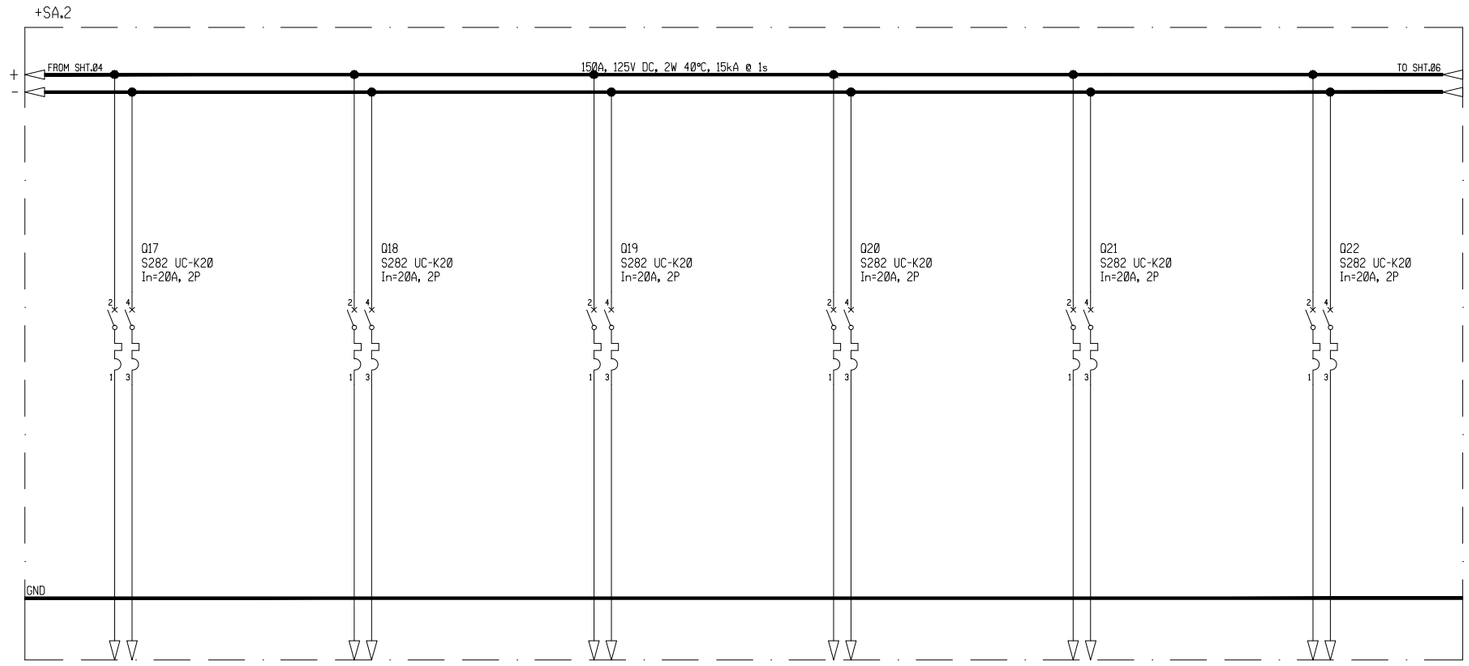
11131061/00	P	C424	CD-289346	05 of 07	1



EQUIPMENT LABEL	-	-	-	-	-	-
ITEM DESCRIPTION	33kV BUS SECTION-C OPERATING MECHANISM - -	33kV BUS SECTION-C I/C CB OPERATING MECHANISM - -	33kV BUS SECTION-C TC2 SUPPLY - - -	33kV BUS SECTION-C I/C TC2 SUPPLY - -	33kV BUS SECTION-C O/G TC2 SUPPLY - -	33kV BUS SECTION-C TC1/CC SUPPLY - - -
RATING (A, kW, kVA)	20A	20A	20A	20A	20A	20A
CUBICLE LOCATION	+SA.2	+SA.2	+SA.2	+SA.2	+SA.2	+SA.2
MODULE SIZE	-	-	-	-	-	-
MODULE LOC.	-	-	-	-	-	-
CABLE SIZE	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm

NOTES

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TWO LINE DIAGRAM

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXISTING 132/133KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

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11131061/00	P	C424	CD-289346	05 of 07	1

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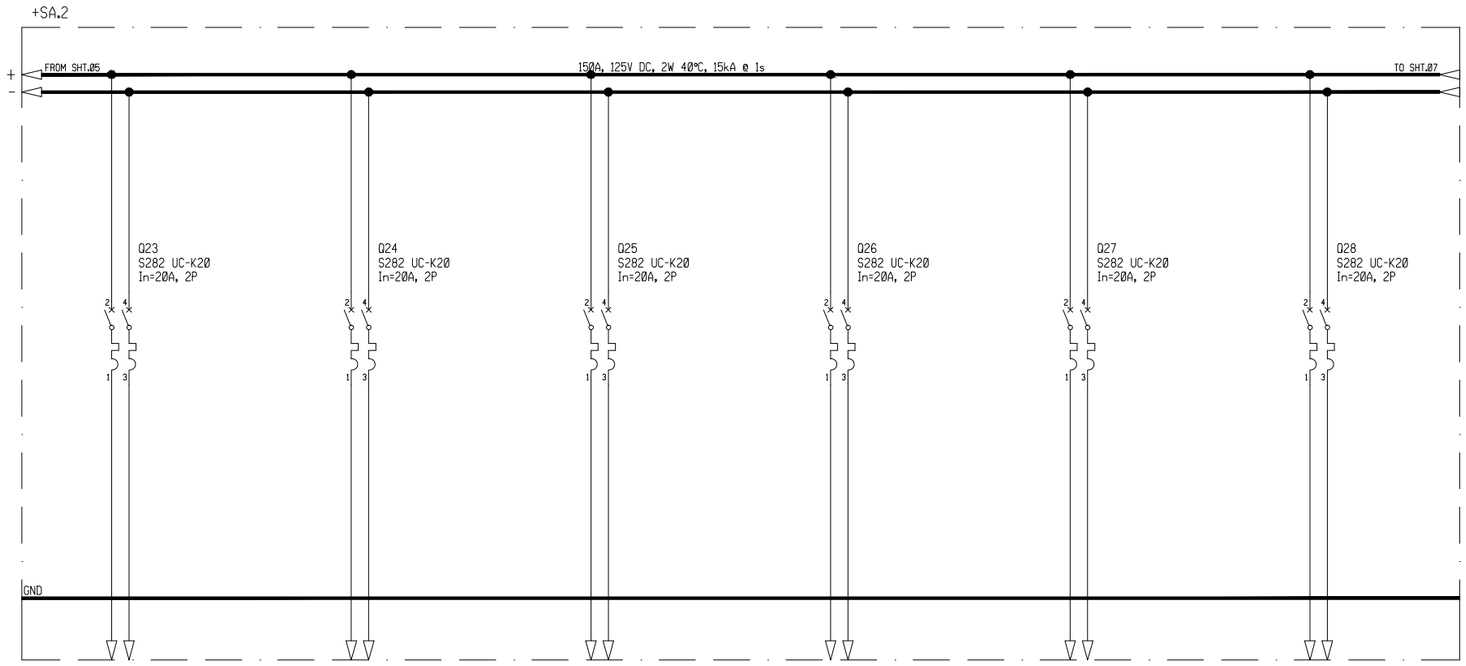
11131061/00	P	C424	CD-289346	06 of 07	1



EQUIPMENT LABEL	-	-	-	-	-	-
ITEM DESCRIPTION	33kV BUS SECTION-C I/C CB TC1/CC SUPPLY - -	33kV BUS SECTION-C O/G CB TC1/CC SUPPLY - -	SPARE - - -	SPARE - - -	SPARE - - -	SPARE - - -
RATING (A, kW, kVA)	20A	20A	20A	20A	20A	20A
CUBICLE LOCATION	+SA.2	+SA.2	+SA.2	+SA.2	+SA.2	+SA.2
MODULE SIZE	-	-	-	-	-	-
MODULE LOC.	-	-	-	-	-	-
CABLE SIZE	2Cx6sq.mm	2Cx6sq.mm	-	-	-	-

NOTES

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NEW 125V DC DISTRIBUTION BOARD

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11131061/00	P	C424	CD-289346	06 of 07	1

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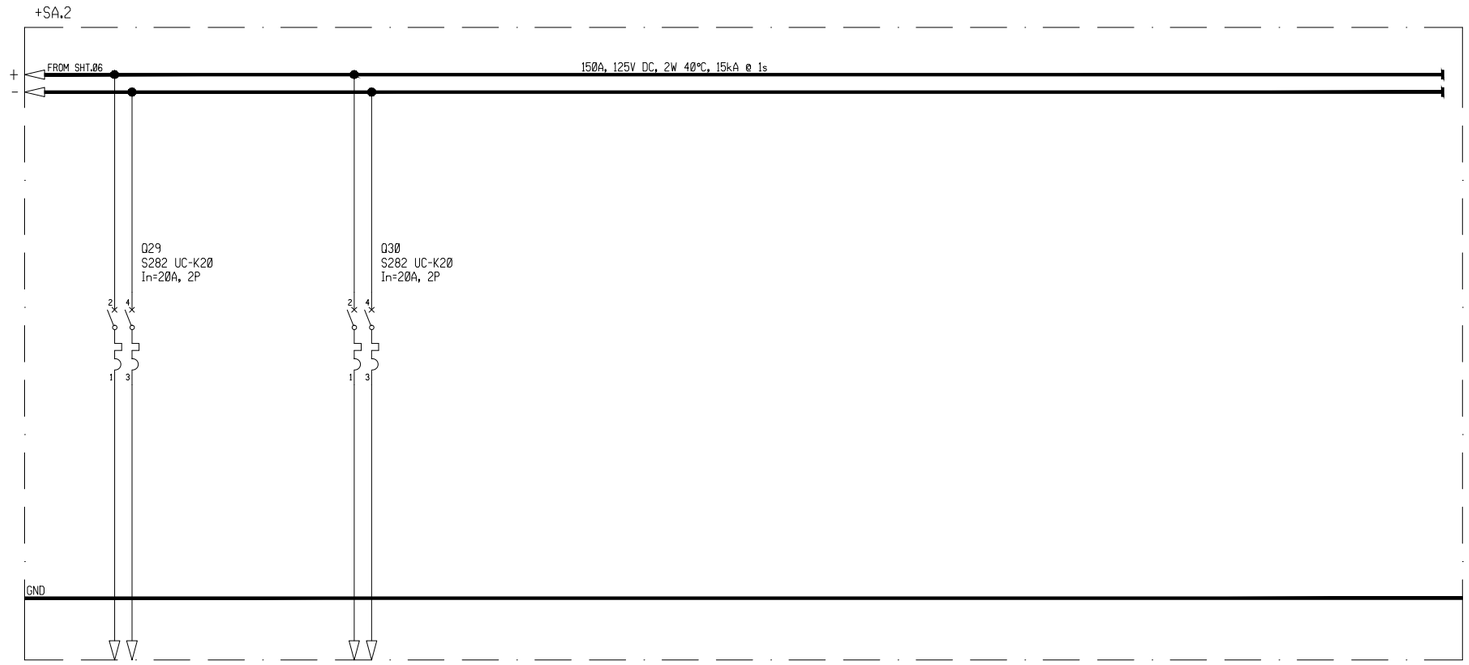
11131061/00	P	C424	CD-289346	07 of 07	1



EQUIPMENT LABEL	-	-	
ITEM DESCRIPTION	SPARE - - -	SPARE - - -	
RATING (A, kW, kVA)	20A	20A	
CUBICLE LOCATION	+SA.2	+SA.2	
MODULE SIZE	-	-	
MODULE LOC.	-	-	
CABLE SIZE	2Cx6sq.mm	2Cx6sq.mm	

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